

FOLIO

UNIVERSITY OF ALBERTA
6 MAY 1994



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Senators vow to tell community of importance of international activity

Action stems from task force report on University's international dimensions

By Michael Robb

The Senate's Task Force Report on International Dimensions of the University will complement the U of A's strategic plan, Task Force Chair Zaheer Lakhani told Senators last Friday.

There has to be an institutional will to want to become more internationally involved, said Lakhani.

"This calls for committed leadership, but more importantly, for facilitating mechanisms and structures," he said. "We need an enabling environment on campus that will allow things to happen, not so much by accident or by the whims of individuals, but rather in a more structured and directed manner."

The task force recommends that the University mitigate the effects of differential fees and potential full cost tuition fees for international students. To some extent, Senate's discussion focused on what many perceive as a threat posed by the provincial government's draft white paper recommendation to charge full cost-recovery fees for international students.

"We believe that the proposal [contained in the provincial government's draft white paper] to charge full cost recovery fees for international students would send the wrong message to the world," task force member Deni Lorieau said. (See students' reaction, page 3.)

The Senate report makes three major recommendations: establish an office of international affairs headed by a senior officer titled

Dean and Special Advisor to the President; develop a comprehensive international affairs policy; and that the office develop a strategic plan to establish the U of A as a leading international university.

The task force recommends that the strategic plan have a number of elements: linkages and exchanges; human resources; curriculum development; international development; finance; communications; ambassadorship; distance education and standards and methods of evaluation.

"This is a well-reasoned report and a good overview of why international activity is so important," President Paul Davenport said.

Senate member Sadruddin Boga said the report represents an effort in two areas: adapting to the external environment and trying to influence that environment. "We need to excel in certain areas that we're well known for so that we can influence that external environment."

Boga said there is a shift in paradigm from a closed system to an open system. All stakeholders are being considered and the discussion is about the world, he said. To some extent, however, there is an overemphasis on the economic and financial benefits as the justification for internationalization. "It's an important aspect, but it's only part of it."

Chancellor Sandy MacTaggart said the report is timely. "This report says some of the important things the [provincial government's] draft white paper does not."

Asked whether there would be on-campus support for the creation of a Dean's position, President Davenport said, "My personal reaction is that I believe in the spirit of what's there. Dr McDonald and I, and more recently Dr Piper and I, have been discussing this issue with the Deans' Council for at least two or three years. As of last summer, Vice-President Piper was working on a proposal that would have established a Dean of International Affairs. I was supportive of that."

"As we started to test the community waters, and we were talking to people just at the point when we learned of the full extent of the budget cuts, it just did not seem to us our community was ready for another Dean."

"This report will help my successor to get this issue back on the top burner," he said, pointing out that it may be possible to fulfil

the task force's first recommendation without increasing the number of Deans.

The task force recommended that a review of the progress of internationalization goals be undertaken by the Senate after a period of two years from the adoption of the task force's final report.

The task force examined three issues: the objectives and roles of the University in its international relationships; the current dimensions of the University's international activity and the processes by which various linkages, exchanges and projects occur; and the strengths and weaknesses of the University as an international campus and ways to maximize the benefits of current and future international activity.

The draft report's recommendations will be voted on by the Senate at its September meeting. People can pick up copies at the Senate Office, Athabasca Hall.

Front row, centre

Dovichi and team have ringside seats at the most exciting scientific show on earth

By Michael Robb

Mapping the human genome is a massive undertaking. Chemistry Professor Norm Dovichi has a geographical analogy for that undertaking: "We have to cross the country, and so far we're somewhere in the heart of Vancouver on foot. We need to get to Halifax."

Dr Dovichi and his team have just been awarded \$200,000 US from the US Department of Energy Human Genome Program to develop technological methods to speed up that cross-country journey. "It's certainly not a jet, but it's a fine automobile. And it gives us some hope that we'll get to the other side of the country, whereas with current technology it's a very long walk."

"We build instruments to sequence DNA [essential components of all living cells carrying hereditary information, which enable highly specific proteins to be constructed]. And if those instruments perform the way we predict, they will sequence DNA much faster than current technology," explains Dr Dovichi.

"We take some well-known commercially available chemistry to produce DNA sequencing fragments, and then we miniaturize the conventional instrumentation used for the experiments. Classically, DNA sequencing is performed using a technique called gel electrophoresis [the migration of charged particles through a solution under an electric field]. That's a cumbersome, tedious and slow process."

Dr Dovichi believes miniaturizing and expanding the scale will allow the team to look at lots of DNA at the same time. "What we do is electrophoresis in quartz capillaries. It allows us to use very high electric fields,



Norm Dovichi, Professor of Chemistry

and those provide very fast separations. Speed is the name of the game."

But there's a drawback: Because the capillaries are very small, not much DNA can be put on them. So, there's a need for extraordinarily sensitive detection technology. "We build good laser fluorescence detectors, and the coupling of those with the high electric field electrophoresis from the capillary provides good performance."

"What we're proposing in two years is to have an instrument that can sequence 100 times more DNA per day than can conventional state-of-the-art instruments." In effect, many capillaries will be operating simultaneously.

Dr Dovichi's team has already developed a first-generation instrument.

Continued on page 4

MRC awards \$9.7 million to U of A

Forty-nine projects funded for three years

By Judy Goldsand

Medical Research Council of Canada (MRC) funding in the new-grant category will help Susan Dunn pursue research into the role of calcium in muscle function. Similarly, MRC new-grant funds will assist Edward Tredget to investigate how scarring might be minimized.

Dean Befus will use his MRC renewal grant to continue studying allergic and inflammatory diseases, while a renewal grant will help Dennis Vance progress with research into mechanisms that regulate the amount of lipids made in cells.

MRC has awarded \$9.7 million over three years to scientists at the University of Alberta. Twenty-three new projects and 26 ongoing projects were granted funding.

A 38 percent acceptance rate in the new-grant competition places the Faculty of Medicine well ahead of the national average of 25 percent. Across campus, 23 of 67 new projects were funded (34 percent).

Medicine's Associate Dean for Research, Joel Weiner, says this success is "a reflection of the effort we put into internally reviewing the grants and preparing them before they go out."

Dr Weiner is gratified that our University leads the country in the number of female MRC grant recipients. Twenty-two percent of U of A researchers receiving MRC grants are female, as compared with the national average of about 10 percent.

Actual dollars the U of A receives annually from MRC are in the \$14 million range. This covers first and later years of grant money as well as funding for personnel support (postdoctoral fellowships, studentships and other MRC awards).

Dr Weiner observes that in terms of total funding, the University of Toronto and McGill receive the most, with the University of Montreal, UBC, and U of A closely aligned as the next three. On a per capita basis, however, he was pleased to report that the University of Alberta ranks near the top.

MRC is the major federal agency that funds medical research in Canada. Its 1994 research budget exceeds \$230 million. Each year MRC supports as many as 2,300 researchers and provides direct employment opportunities for more than 10,000 scientists and support staff.

Government devises income-sensitive student loan repayment program

It's not perfect, but gives students more flexibility in repaying their loans - GSA

By Michael Robb

The provincial government's new income-sensitive student loan repayment program isn't perfect, but it is more progressive than the previous loan program, Graduate Students' Association representatives say.

Under the new system, graduates will be able to arrange flexible repayment schedules with the bank based on their income at the time. "This is what students have been asking us to do: to find a new way to help them meet their financial obligations in a way that reflects their individual circumstances," Advanced Education and Career Development Minister Jack Ady said last week.

GSA Vice-President (Internal) Ward Niou said, "This plan isn't perfect, but I think the government has effectively balanced the needs of students and the interests of taxpayers." Added GSA President Kimberley Krushell, "This is a credible plan as long as the shielding component of the loan program is guaranteed."

The government will continue to determine the eligibility for student loans, but will no longer guarantee most loans under a five-year contract signed with the Canadian Imperial Bank of Commerce. The contract takes effect 1 September.

The government will pay CIBC a five percent premium for taking the additional risk. Student loan collection will then become the bank's responsibility. Under the new scheme, the government estimates taxpayers will save between \$8 and \$9 million annually. Rather than defaulting on their loans, students will have a number of options to help

them succeed in paying their loans, the Minister said.

"This agreement with Alberta will enhance the service presently provided by CIBC to all students regardless of their choice of institution," CIBC senior vice-president Brian Cassidy said.

Another benefit of the plan, GSA representatives pointed out, is that students will be able to establish a positive credit rating. Previously, only defaulted student loans were reported to the credit bureau.

The new program has its critics, however. Opposition spokespeople last week suggested students from more wealthy families would be able to negotiate better terms for repaying their loans. Students will have the option of a variable interest rate of prime plus 2.5 percent, or a fixed rate of prime plus five percent. Students may negotiate lower rates if they qualify on an individual basis, or if they obtain a co-signer for the loan.

Liberal opposition leader Laurence Decore said, "CIBC gets the vast bulk of the lowest risk loans plus a huge premium from the government. Students will pay more than bank customers will, and the government still bears the risk for the shakiest 10 percent of the loan portfolio."

Ady responded that the government is paying out somewhere between \$15 and \$20 million for student loan defaults. "So if the

bank is prepared to take on that risk for a \$5 million premium, I believe the taxpayers will be receiving a pretty good return on the proposal."

Decore asked, Why would the government give CIBC \$5 million when the bank already gets 65,000 new customers? The bank can also charge these customers more than most other people.

Ady pointed out that to protect students from rapid climbs in the prime rate, a shielding program will be put in place. It will reimburse students in the event that the new program results in interest rates that are higher than those paid by students under the current program.

The program also calls for:

- the removal of the government guarantee on over 90 percent of loans issued in return for the payment of the five percent premium;
- a limited guarantee to CIBC on loans issued to students who have experienced previous credit difficulties;
- a suspension of payments for up to 18 months if students' income falls below established thresholds due to unemployment or underemployment; and,
- the payment of interest on student loans during the period in which students are in school and for six months thereafter (no change here).

Judge returns to the classroom — to study

Bob Halifax doing master's degree here

By Michael Robb

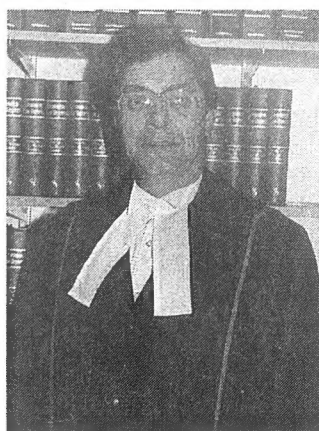
Bob Halifax isn't your typical law student. As Chief Judge of the Territorial Court of the Northwest Territories, he has a fair amount of practical experience.

Judge Halifax, 47, who has spent more than two decades in the North, decided to spend his sabbatical at the University of Alberta's Faculty of Law, so he could augment that practical experience with theoretical knowledge. He expects to finish his master's thesis, titled "Tribal courts: a case for community-based justice", by next spring.

Thesis co-advisor Catherine Bell says the Northwest Territories is moving quite rapidly in adopting community-based justice systems. "Over the years, there has been more recognition of customary law in the North; many aboriginal people are in government; and many aboriginal people in the NWT still use traditional aspects of justice. So Bob's work is important."

"We've got to be able to accommodate those traditional values," says Judge Halifax, who has been instrumental in establishing community-based justice systems in the North. "We're ahead of the country by a long shot," he says, adding that he wasn't prepared to debate for the next 20 years the pros and cons of separate justice systems. The real and more fundamental issue is fairness, he points out.

Aboriginal people are perplexed sometimes about the Canadian system of justice. Why, for example, does there have to be winners and losers? Why is the system so adversarial? Why do aboriginal people frequently have to go to jail? Why can't they pay



Bob Halifax, Chief Judge of the Territorial Court of the Northwest Territories

for their crimes in more socially constructive ways? And why can't the community be more involved in the dispensation of justice?

Halifax's committee member, Native Studies Professor Richard Price, says implementing community-based justice systems enables aboriginal people to rediscover some of their own traditional forms of justice. It's also a source of healing and pride, and a part of the process of self-determination.

Judge Halifax, a veteran of 17 years on the bench, says he was burnt out; 12- and 14-

hour days had taken their toll. And he probably has more frequent flyer points than any other Canadian.

Making the transition from the bench to the classroom has been quite a challenge. "It's been a struggle to write the thesis. I was never an English major. Writing judgments is a little more simple, and in the beginning I was overwhelmed. There's so much I want to say."

"I quite enjoy working with Catherine. She's well-regarded in the aboriginal justice field and is very good at asking, 'Have you considered this option?'"

Certainly one of the challenges is to get experienced graduate students like Judge Halifax to look beyond their own experiences and personal resources, explains Professor Bell. And it's absolutely essential that a strong team work with experienced graduate students. Law Professor Jim Robb is also on Judge Halifax's committee.

The educational benefits have flowed both ways: Judge Halifax shared his views with fellow classmates and they, in turn, shared theirs. "The graduate students I work

SENATE BRIEFS

Safety report chair wants recommendations acted upon

The chair of the safety and security on campus report asked Senators at their regular meeting last Friday to put pressure on the appropriate University authorities to urge them to act upon some of the report's recommendations.

Now is the time to expand, not cut back, the Campus Security Services budget, said Ray Grant (English), who chaired the Council on Student Life inquiry into safety and security on campus. He said he wanted to alert Senators to the ethical, legal and moral considerations involved in ensuring the campus is safe and secure.

He reiterated the need for CSS to hire five or six more officers to combat a growing problem on campus.

New Senate rep on the Board

Betty-Anne Pearson will serve as the Senate's representative on the Board of Governors. She will replace Mary O'Neill. Pearson's appointment is effective 24 May.

President gives Quality First update

President Paul Davenport gave Senators an update on the Quality First restructuring document proposals. Six proposals which will require General Faculties Council and Board of Governors approval will be before GFC in May.

The proposal to close the Faculty of Dentistry and develop alternative ways of educating dentists was defeated by the Academic Development Committee by a 6-3 vote.

Chancellor says goodbye

Chancellor Sandy Mactaggart presided over his last Senate meeting. "It's been a rewarding experience and I'm grateful for all the support you've given me," he told Senators. He said the Senate made a wise choice in selecting Lou Hyndman to succeed him.

with are often very experienced in the field," explains Professor Bell, "so you have to keep in mind that the best relationship is one where you recognize the potential for learning by both parties."

His arrival was well timed. Judge Halifax, who has been instrumental in educating the judiciary on cross-cultural issues in justice, helped develop the Faculty of Law's perspectives unit on aboriginal people and the law.

Judge Halifax says his sabbatical will set an example. "This is what sabbatical leaves are all about. It's a great idea to study and in the long-run it benefits the jurisdiction."

CURRENTS

Biological scanning electron microscopy

A workshop on biological scanning electron microscopy will be held 17 to 20 May, 1 to 4 pm, in 1146 Dentistry-Pharmacy Building.

Each of the four afternoon sessions consists of lectures, demonstrations and practice. Fee for materials: \$100. To register, and to obtain information on TEM course, call Dr Ming Chen at 492-3621.

Retirement dinner for Darius Young

On Wednesday, 18 May, at 6 pm, friends, family and colleagues will gather in the Saskatchewan Room of the Faculty Club to honour Darius Young (Secondary Education) on the occasion of his retirement from the U of A.

If you are interested in attending the dinner, call Vanessa Ianson, Secondary Education office, at 492-0750.

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Folio's mandate is to serve as a credible news source for internal audiences by communicating accurate and timely information about issues, programs, people and events.

DEADLINES:

Notice of coming events: 9 am three weeks in advance of event. Classified advertisements: 3 pm one week before desired publication date. This date also serves as the deadline for cancellation of advertisements.

Advertisements cost 40 cents per word with no discount for subsequent insertions. There is a limit of 40 words and a minimum charge of \$2.00. Advertisements cannot be accepted over the telephone. All advertisements must be paid for in full at the time of their submission.

Display advertisements: 3 pm Friday, seven days before desired publication date. Camera-ready artwork is required to size, complete with halftones if necessary. Call 492-0436 for sizes, rates and other particulars.

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Experiment in process improvement begins to show results

By Tony Myers

Peter Barker now has a headset. Bob Foshaug is getting a portable phone. The telephones are starting to work better. The people working here (Materials Management Building) can serve their customers better. And the potential saving to the department this year is \$2,500.

Maybe this isn't a big deal in the scale of things, but it is visible proof that a team of six led by Jody Brookwell is making a difference. They call themselves the "Teleteam."

You see, it was because of their effort that Bob will soon be able to answer his phone anywhere in the warehouse. Peter is now ambidextrous. His headset allows him to work with both hands and you know what? He's happier.

No, it doesn't take a team of six to make those kinds of decisions. But the example

graphically demonstrates how Materials Management is sharing its decision-making these days.

"In most cases, no one has ever asked the users what they needed from the telephone system," says Brookwell. "It used to be that management made these decisions, but now staff has a chance to participate."

Encouraged by management, Materials Management staff identified a number of inefficiencies and irritations in their work environment. Telephones was one of them.

"We were surprised when we found out that a lot of people shared the same frustrations with their telephones," says Brookwell. "We were more surprised when we looked into things and found out that not only could we make improvements, but we could save money in the process."

Loaded with information from Cathy Aquil of Physical Plant's Telecommunications Division, the Teleteam disconnected unused phones, removed unnecessary phone jacks and corrected inconsistencies found in their phone bills.

The group's approach has been thorough and systematic. Using what is called a "process improvement model", they listened to phone users. They found out what users' needs were, and then made 26 specific recommendations for change.

Process improvement isn't restricted to the use of telephones.

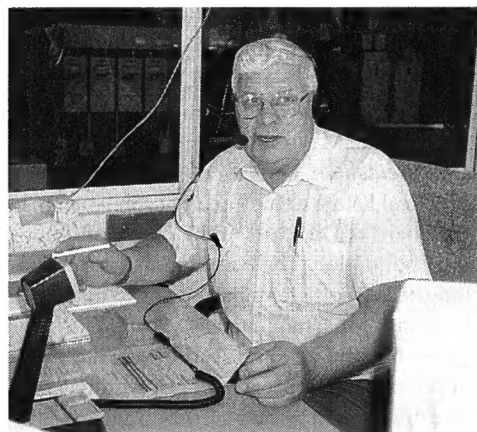
There was a process improvement chart sitting in the loading dock when Folio went to see Brookwell about the Teleteam's success. Team Based Process Improvement (TBPI) bulletin boards carry news of the numerous other teams working together to solve problems.

"This exemplifies the spirit of the Service Initiative," says Roy Bennett, Director of Materials Management. "Glenn Harris [Vice-President (Finance and Administration)] has encouraged us to be innovative, to work with all our employees to solve problems, improve service and save money. The Teleteam is one example of how this is working."

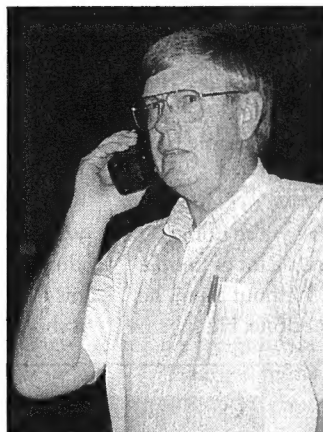
"It's only a start," admits Harris. "It's a small step forward, but I believe when people see they can have an impact and get results there will be no stopping them."

Process Improvement Model

- Step 1: Clarify team membership, understand expectations
- Step 2: Determine critical process and survey key customers
- Step 3: Write clear issue statement
- Step 4: Flow chart process
- Step 5: Develop process performance control chart
- Step 6: Examine problems and barriers to solutions
- Step 7: Gather data and identify standards to measure improvement
- Step 8: Brainstorm solutions and choose best
- Step 9: Implement
- Step 10: Monitor performance. If solution effective, standardize it
- Step 11: When issue resolved, go on to next one



Peter Barker



Bob Foshaug



Materials Management's "Teleteam" consists of, from the left, Steve Alexander, Dennis Christensen, Owen Saul, John Dicks, Jody Brookwell and Roy Miller.

Towards an improved Folio ...

Reader survey results tabulated

By Folio staff

Folio thanks everyone who responded to its reader survey — all 881 of you. That's a 9.5 percent response rate, and we think it's very good for a survey of this type.

As we said in the opening survey statement: "Your opinions are important to us as we work to continuously improve Folio." The results will form the basis of Folio's plan to serve the University community even better.

The survey results show an almost even split between support staff (39 percent) and faculty (38 percent). Eleven percent were administrators, 1 percent was volunteers and 13 percent were affiliated with the University in

some other fashion (graduate student, retired, alumni, etc). The total is greater than 100 percent due to rounding.

An overwhelming number of respondents (81 percent) have been associated with the University for five years or longer. The gender split was 52 percent female, 44 percent male.

About one in three (33 percent) have a doctorate, 18 percent have a bachelor's degree and 15 percent have a master's.

More than three-quarters (77 percent) said that, "of the last four issues published", they had read or looked at all four.

Most rated Folio as good or very good in: credibility (74) percent; overall quality, usefulness, enjoyability (81 percent); writing style (82 percent); and effectiveness in keeping you informed (80 percent).

You also rated these areas as good or very good: photography (84 percent); balance of news stories (81 percent); look (82 percent); and diversity of issues (81 percent).

While these scores seem, well, good to very good, the scores for excellent were all below 15 percent, and most were below 10 percent. We will try to improve Folio so more of you will rate the publication as "excellent." To do that, we will try to deliver more of what you want.

Most respondents want more stories on: provincial funding, special events, Faculty and department news, teaching innovations, opinion pieces and human interest stories.

Fewer people cited topics for which they would like the same or less coverage. As for other topics, 12 people wanted more job postings; five, more fine arts; five, cartoons; three, sports events; and three, Library news.

Only 19 percent offered suggestions for future issues. Three percent asked for more controversial/more opinion-based articles; two percent said there should be less news from administration.

The survey also revealed the majority, at 44 percent, believe Friday to be the best day to receive Folio (Monday was next, at 15 percent).

More than half (55 percent) said Folio should remain a weekly newspaper; less than one-third (31 percent) prefer that it publish biweekly.

With this invaluable help from its readers, Folio is better equipped to work towards continuous improvement.

Student leaders oppose full cost-recovery scheme for international students

Will tell Ady the proposal will destroy research at U of A

By Michael Robb

The proposal in the provincial government's draft white paper to charge international students full cost-recovery fees would seriously damage the University of Alberta's ability to conduct internationally competitive research, student leaders charge.

"This proposal would destroy the quality of the teaching and research at the University," Graduate Students' Association Vice-President (Internal) Ward Niou said at a press conference last week.

Niou said international students are essential to teaching and research, do not take places from Albertan students and contribute approximately \$1.5 billion to the Canadian economy annually. Students' Union President Terence Filewych said a study in the mid-1980s estimated that international students

studying at the U of A injected approximately \$10 million into the local economy.

Student leaders added their voices to a growing chorus of concerns being raised at both of the province's major research universities. Filewych said students' organizations will be enlisting the support of business and community leaders and would make their (students') case at the 2 and 3 May meeting in Edmonton at which invited stakeholders were to discuss the draft white paper.

International students make up about four percent of total enrollment in Alberta's postsecondary institutions. In this University, about 25 percent of graduate students are from other countries. International students are currently charged double the tuition fees paid by Canadians. The draft white paper proposes that international students who begin their studies in September 1995 pay

cost-recovery fees. Institutions would be allowed to rebate portions of those fees with scholarships or other means.

Niou said that in Ontario, where full cost-recovery was implemented, international students sought out less expensive places to study. The quality suffered because Ontario universities were not getting the best graduate students, he said, warning that richer international students would likely still be able to attend, but that they wouldn't necessarily be the brightest or the best.

SU Vice-President (Academic) Jo-Anne Bishop said international students add an international dimension to the U of A. "This will become increasingly important and necessary as our students prepare to enter the global economy."

Filewych warned that if full cost-recovery is implemented, the University's ability to

maintain its international stature will falter. "We may find the University of Alberta becoming more of a provincially based university than an international one."

He suggested the University's fundraising efforts may be jeopardized by a cost-recovery tuition scheme. "An international graduate of the University of Alberta made a contribution to the University in the range of \$2 million. This wouldn't happen if we aren't able to attract these students, and it wouldn't happen if this policy is implemented."

Political science student Chris Reidmueller, who has had extensive international education experience, characterized the provincial government's proposal as a "commodification of international education".

Jed Harrison: first recipient of Faculty of Science Research Award

Recognized as promising young scientist

By Michael Robb

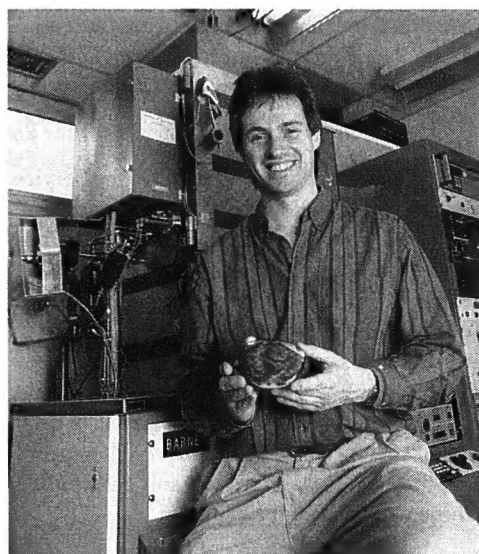
The Chemistry Department goes to great lengths to meet the needs of its young faculty members, says the recipient of the inaugural Faculty of Science Research Award, awarded to promising young scientists.

Jed Harrison says he's always been able to turn to more senior faculty for advice and guidance on teaching and research issues. "The department provides a good environment for supporting young faculty members."

Such support is more than the inspirational and moral kind.

The department has been able to meet Dr Harrison's expanding laboratory requirements and equipment needs. "It's done that without me having to expend great amounts of energy fighting for them," he says. Collaborations and interaction with other faculty—many of whom are known across the country as being among the best in their field—has been fruitful and enjoyable.

In fact, Dr Harrison is a little humbled by the award. "I felt very honoured, recognizing that there are so many good young scientists in our Faculty." Last year he was awarded the Canadian Society for Chemistry's WAE McBryde Medal for research in analytical chemistry. "I was more emotionally touched



Jed Harrison, the first recipient of the Faculty of Science Research Award

by this [Faculty] award, because people here know me so much better.

"It's wonderful to know we're being recognized for the kind of work we're doing," he says, pointing out that there's a lot of people behind the Faculty award. Without them, he says, the work wouldn't get done. He says he

tries to impress upon his team members that the work they're doing is significant, but it's not always easy for graduate students to raise their heads and take a broader view. So it's always nice when people outside the work recognize its significance.

Dr Harrison works with a group of about 10 students and researchers. He's particularly interested in miniaturizing and automating the devices used to measure the concentration of chemicals. He's interested in electrochemistry, specifically in the development of membranes for chemical and biochemical sensors, and the use of microelectronic fabrication techniques for sensors and sensor systems.

More recently, the group has been developing electrophoresis systems on glass chips. (Electrophoresis is the migration of charged particles through a solution under an electric field.)

A native of Vancouver, Dr Harrison earned his BSc in chemical physics at Simon Fraser University in 1980. He was the recipient of an NSERC postgraduate fellowship while doing graduate studies at the Massachusetts Institute of Technology. He earned his PhD there in 1984 and joined the U of A a short time later.

More 'old money' for Classics

By Ron Thomas

If money talks, the Classics Department has just acquired an erudite conversationalist.

"Coins of the Hellenistic World" and "Roman Imperial Coins" were donated to the department last week by Winnifred Kolodkewych of Mundare, daughter of the late David Kennedy, an avid collector of coins of Britannia.

This ranks as the primary display of coins in the department and will service a great number of students, says Associate Professor Jeremy Rossiter.

"I knew I made the right choice donating the [20] coins to a nice, secure place where they will be seen by people who are knowledgeable about ancient coins, which I'm not.

"This is preferable to having them in a little box in a drawer," Kolodkewych told Folio.

In February 1993, Kolodkewych donated a number of Roman coins to the department as well as various catalogues and books on numismatics to both the department and the Library.

And, speaking of donations, Dr Rossiter pointed out at the department-hosted reception that graduate students in Classics volunteer their time to help keep the Classics Museum open throughout the year.



Jeremy Rossiter and Winnifred Kolodkewych inspect the coins in the Classics Museum on the main floor of the Humanities Centre.

Dovich *Continued from page 1*

In 1991, the team was also funded by the US Department of Energy Human Genome Program. "We are the only Canadian group, and one of only three groups outside the US, funded directly by the Human Genome Program. Several groups are funded indirectly." This most recent grant will be used to develop a second-generation instrument.

"DNA sequencing is a horrendously complex problem," Dr Dovich says. "One-third of the problem is biology or biochemistry, taking the human genome and dividing it up into

nice, small packages. Another third of the problem is what we do, the high-voltage electrophoresis, and the identification of the fragments. And yet another third of the problem is putting it all together. It's a huge jigsaw puzzle. How do you put it together? And once you do put it together, what does it mean?"

"Our approach makes the first and third parts of the task a little bit easier."

This work is typical of how science is conducted around the world. Dr Dovich's

group is huge and fluid and has funding for several overlapping projects. Research associates, postdoctoral fellows, graduate students, faculty and technicians all bring their particular skills to the task. Others will join the team.

All of these researchers have ringside seats to what many say is the most exciting scientific show on earth. Dr Dovich recently did site visits to other universities involved in the massive, multi-institutional effort to map the human genome. Listening to presentations on the mapping of chromosome 5, he

ACTIVITIES

Oxford University Press will publish *Latent Heat Transfer* by GSH Lock (Mechanical Engineering). This is the third work in a trilogy on heat transfer. *The Growth and Decay of Ice* (C.V.P.) and *The Tubular Thermosyphon* were published in 1990 and 1992, respectively. Professor Lock, representing Canada, has been elected chairman of the Regional Board of the International Arctic Science Committee. The Board represents the interests of the eight arctic nations in the international body...*Alexander Matejko*, Professor Emeritus of Sociology, has been appointed by the Canadian Executive Service Organization as a volunteer trainer in the National Chamber of Commerce in Warsaw...St. Stephen's College has a new Principal in the person of *Christopher Levan*. Dr Levan, who takes up his appointment in mid-May, comes to St. Stephen's from Centenary-Queen Square United Church in Saint John, New Brunswick...Mayor Jan Reimer has appointed *Don Weideman*, Director of Land Economics and Real Estate at the Faculty of Extension, to the Board of Directors of the Greater Edmonton Foundation. The Foundation operates 14 lodges, 200 cottage units and seven apartment buildings for senior citizens...*Susan Haske* (Speech Pathology and Audiology) has been appointed to the provincial government's Hearing Health Strategy Committee.

CORRECTION

A story headlined "Arts Dean named to SSHRC" (*Folio*, 29 April 1994) stated that Patricia Clements, Dean of Arts, was the founding director of the University's Research Institute for Women's Writing. In fact, Dr Clements is one of three founding directors of the Institute, the others being Isobel Grundy, Tory Professor of English, and Shirley Neuman, Professor and Chair of the Department of English.

Dentistry hosts Ukraine's Minister of Health Education

Speaking at a recent conference titled "Canada's Strategy for Education of Health Professionals in Ukraine," Tatyana Chernychenko expressed interest in furthering the partnership between the health education facilities at the University of Alberta and those in Ukraine.

At the conference, which was held in Edmonton, Dr Chernychenko, Ukraine's Minister of Health Education, gave an overview of the education of health care professionals in Ukraine. Her audience included Carl Osadetz and other Canadians who have participated

in various projects in the last couple of years with partners in Ukraine. Dr Osadetz, Chair of the Division of General Practice, Department of Dental Health Care, Faculty of Dentistry, established a working relationship with colleagues in stomatology at the State Medical Institute in Lviv during part of his study leave. The Faculty has also invited a staff member in stomatology at the University of Kiev to come here on an exchange visit.

During a visit to the Faculty of Dentistry, Dr Chernychenko interacted with Janice Pimlott, Chair of the Division of Dental Hy-

giene, and learned about the Faculty's programs, particularly the Dental Hygiene Program and its course outlines and statistics. She said she was impressed with the preventive emphasis in Canadian dentistry and the collaborative roles played by the Faculty of Dentistry and the Dental Hygiene Program.

With the physical proximity of the Faculty of Pharmacy and Pharmaceutical Sciences, Dean Richard Moskalyk arranged to have Vera Stepnitsky, Assistant Clinical Coordinator of Pharmacy, discuss the education of Pharmacy students with Dr Chernychenko.



From the left, Carl Osadetz, Janice Pimlott, Tatyana Chernychenko and Dori Tovstiyuk, interpreter.

Edmond Gomes: man on a mission

First Bangladeshi to complete petroleum engineering PhD

By Michael Robb

When Edmond Gomes, a soon-to-be professor of petroleum engineering at the Bangladesh University of Engineering and Technology (BUET), can't find the expertise he needs in his own country, he'll likely pick up the phone and call Alberta.

The 32-year-old engineer, who defended his thesis this spring, says he's developed strong links with this University, his alma mater, and the petroleum industry in the province. In the increasingly global economy, that's important, he says.

Gomes figures to be a key player in the development of Bangladesh's potentially huge natural gas reserves. The reserves are estimated to be about a quarter of the size of Canada's, and it's likely that even more will be found.

Bangladesh is pinning its economic hopes, in part, on natural gas to power its energy needs, and to develop a mature petrochemical industry. To do that, the country needs engineers trained in natural gas engineering, process control technology and safety and environmental technologies.

Gomes is the first of several Bangladeshi students who are studying at the University of Alberta under the U of A-BUET linkage project funded by CIDA (Canadian International Development Agency). He will join a fledgling petroleum engineering department at BUET and help build it to the point where

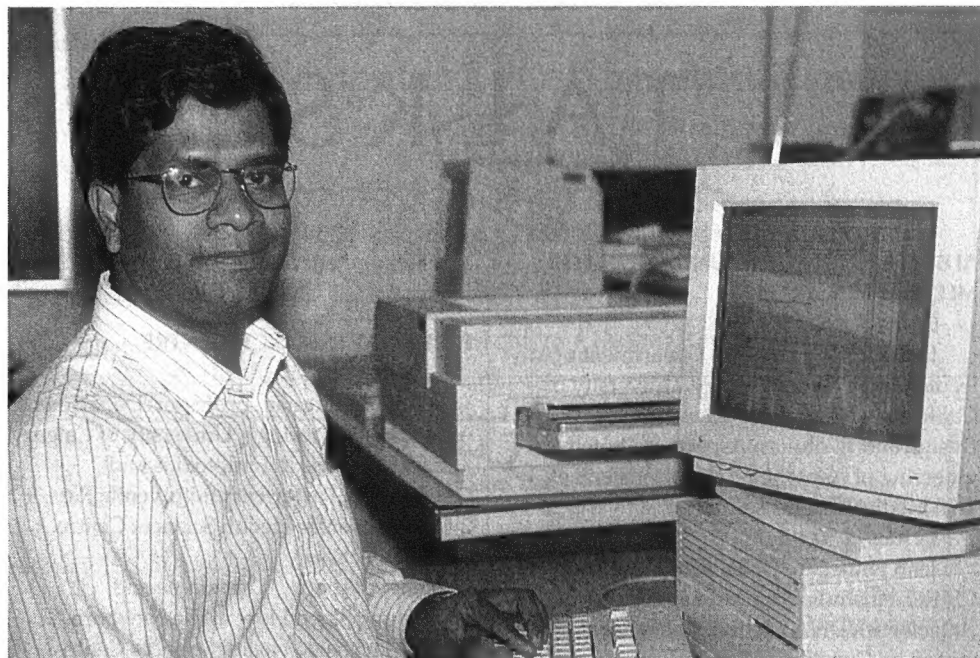
it is central to the country's economic development. Others completing their theses here at the U of A will follow him. Two more will likely finish their PhDs next year.

"It's going to be a challenge," Gomes says. "There's a lot of things to do: develop curriculum, select students and establish links between BUET and the industrial sector." Students who complete their degrees under Gomes' and his colleagues' tutelage at BUET will go to work in the natural gas industry. And as in Canada, the professoriate will provide much-needed advice to engineers in the industrial sector.

Although he's returned to Bangladesh, Gomes expects to maintain his professional associations with U of A faculty, and, perhaps just as importantly, with people in the province's oil and gas industry. "My first thought will be Alberta when I'm looking for expertise we don't have. This is the beginning of a growing partnership that will last a long time.

"The world is becoming closer and global cooperation will dictate which countries flourish economically. Politicians should not ignore that fact."

Gomes completed his BSc and MSc at BUET in chemical engineering. He also lectured there. He arrived at the U of A in September 1988 to do his PhD in petroleum engineering. His advisor was Anil Ambastha, Professor of Mining, Metallurgical and Petro-



Edmond Gomes completed his PhD here in the Faculty of Engineering and recently returned to Bangladesh.

leum Engineering. His thesis title was "Well Testing Analysis for Multi-layered Composite Systems."

"This is an excellent institution and an excellent place to grow intellectually," Gomes says. The present Dean and former Dean of Engineering and faculty members have been tremendously supportive of the BUET-U of A linkage program, he says.

"I learned many things as a human being here. There's a good number of international

students here, so you feel you know the whole world. Alberta is a very welcoming, friendly and hospitable place."

But the learning wasn't all one way, he points out. He's confident Canadian students learned a great deal from him. He, in turn, will return to Bangladesh with a better understanding of Canadian values. He points out that whether people are from developed or developing countries, they often think similarly.

CIDA funds second phase of U of A-Bangladesh University linkage project

Goal is to educate people who can develop Asian country's energy resources

By Michael Robb

A linkage project between the University of Alberta and the Bangladesh University of Engineering and Technology has been given second phase funding by CIDA.

Approximately \$3.8 million over five years will be used to educate Bangladesh students who will help develop the Asian country's energy industry. Several students are finishing PhDs at the University of Alberta and will return to develop a petroleum engineering department at BUET.

Fred Otto, Dean of the Faculty of Engineering, said, "Our CIDA-sponsored partnership with BUET is a significant contribution to the University of Alberta strategic initiative

'to integrate an international dimension into our teaching and research programs to ensure that our graduates are equipped to play a role on the international scene'."

First phase funding concentrated on developing expertise in the exploration and production aspects of developing natural gas reserves; second phase funding will concentrate on processing and distribution aspects. CIDA began funding the project in 1987.

The second phase funding will also include the development of a comprehensive educational and training program. The primary thrust will be natural gas engineering. The secondary thrust will be advanced engi-

neering management which will focus on the efficient development of the natural gas resource.

Bangladesh's natural gas reserves are estimated to be huge—almost 25 percent of Canada's reserves. The country hopes to fuel its economic development with those reserves and develop base stock for a thriving petrochemical industry.

The CIDA funding will be used to train people here in Edmonton who will return to Bangladesh, develop new courses and programs for BUET, upgrade BUET's petroleum laboratory and technical library and establish a centre for environment and management

studies. Practising engineers will take short courses, workshops and seminars given by Canadian experts and BUET staff.

Engineers will be needed to design, operate and manage new industrial petrochemical facilities. Experienced professionals in geophysics and petroleum geology will also be needed to search for more natural gas and (possibly) oil reserves.

"Many of our engineering graduates will get involved with overseas projects during their careers, thus it is important that we integrate an awareness of foreign practices and cultures into engineering education at the U of A," Dr Otto said.

Telephone registration 'King' steps down

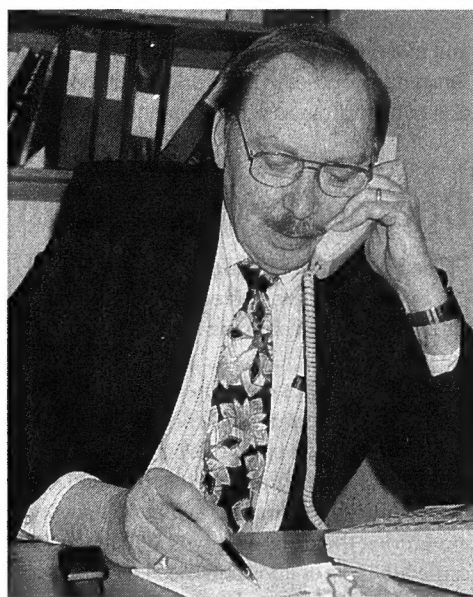
By Sandra Halme

It's no coincidence that the last name of the person who simplified the lives of thousands of U of A students with the telephone registration system is King.

Hugh King, former Associate Registrar and Director of Records, was responsible for the University being the first in Canada, and one of only a handful in North America, to introduce the revolutionary system to campus (the year was 1986). Students, to their everlasting relief, said goodbye to lineups and registered for courses via the telephone.

In January, King stepped down after 19 years with the University, first as an Administrative Professional Officer in Sociology and then with the Registrar's Office.

In reflecting upon King's departure, Registrar Brian Silzer lamented: "It's worrisome enough that we must replace our President, Chancellor and Board Chair, but now we've lost our King." Although it took some arm-twisting, Silzer managed to convince King to



Hugh King did an aces job in Sociology and the Registrar's Office.

stay on as a part-time consultant to lend his expertise and experience to the ORACLE transition project (a database purchased for administrative computing needs on campus).

According to Silzer, an essential contribution made by King was the sense of humour he brought to the office. He recalls one situation where an exasperated student asked, "Is there someone here with a little authority?" King replied, "Well, I guess I have as little authority as anyone, can I help you?"

In all seriousness, King wouldn't trade a minute of his career at the U of A. "It's been a challenging and rewarding 19 years and I'm not ready to hang up my U of A banner just yet," he says, adding that he's signed on for two years. However, if either he or Silzer feel he's not contributing, then he'll pack it in.

Asked what he's most proud of during his years on campus he unhesitatingly recalls the introduction of the Unclassified Student Program. "This program opened doors to many people who wouldn't have had the chance to

come to university." It goes without saying that the innovative telephone registration system falls into this "proud of" category as well.

Another fondly remembered project is the fee assessment revisions. "It took three years to go through the system," he recalls, "but it was worth the wait to see fee inequities rectified."

The most significant change that he's seen over the years is the adaptation of computer systems to enhance service to students. "It's been so exciting to harness computer power to help students."

He doesn't miss regular working hours. "I've got the best of both worlds," he adds. The limited hours of consulting work give him time to pursue another passion—living in the country where he can enjoy the solitude and peacefulness of nature with his wife, Tina, and their two fur people (dogs).

TALKS



ALBERTA HERITAGE FOUNDATION FOR MEDICAL RESEARCH

6 May, 4 pm

Jack Kirsch, professor, Department of Molecular and Cellular Biology, University of California at Berkeley, "Mechanism, Enzyme Design and Evolution Aspects of Protein Engineering of Aspartate Aminotransferase." 4-70 Medical Sciences Building.

12 May, 3:30 pm

Jean Finnegan, Division of Plant Industry, CSIRO, Australia, "Of Mice and Men (and *Arabidopsis*): DNA Methyltransferases." Presented by Genetics. G-116 Biological Sciences Centre.

ANATOMY AND CELL BIOLOGY

10 May, 4 pm

Grant McFadden, "Viruses and the Immune System: New Strategies for Immunosuppression by Myxoma Virus." 5-10 Medical Sciences Building.

CHEMISTRY

Edward Herbert Boomer Lectures
John E Bercaw, Arnold and Mabel Backman Laboratories of Chemical Synthesis, California Institute of Technology, will present the following lectures:

10 May, 11 am

"Activating H₂ and C-H Bonds at Electrophilic Metal Centers: σ Bond Metathesis."

11 May, 11 am

"Ziegler-Natta Polymerization of Olefins."

12 May, 11 am

"Mechanistic Aspects of Olefin Insertion into Transition Metal-Carbon Bonds."

13 May, 11 am

"Organometallic Approaches to Hydrocarbon Oxidation."

All lectures will be held in V-106 Physics Building.

12 May, 11 am

Thomas J Simpson, School of Chemistry, University of Bristol, "Structural, Synthetic,

and Biosynthetic Studies on Polyketide Antibiotics." E3-25 Chemistry Building.

PERINATAL RESEARCH CENTRE

10 May, noon

Quentin Pittman, professor, Department of Medical Physiology, University of Calgary, "Fever Response to Endotoxins and Cytokines in Parturient and Juvenile Rats." 2J4.02 Mackenzie Health Sciences Centre.

17 May, noon

Jamie Pearson, "Dopamine and Splanchnic Blood Flow in the Newborn." 2J4.02 Mackenzie Health Sciences Centre.

RISK MANAGEMENT SEMINAR SERIES

9 May, 3:30 pm

Gary Buchko, "What in the World is not Chemistry?" 2J4.02 Mackenzie Health Sciences Centre.

RURAL ECONOMY

6 May, 2 pm

Julian Alston, Van Vliet Chair, University of Saskatchewan, and professor, University of California, Davis, "Evaluating Primary Product Promotion: Returns to Generic Advertising by Producer Cooperatives in a Small Open Economy." 519 General Services Building.


STATISTICS AND APPLIED PROBABILITY

12 May, 3 pm

Minggao Gu, McGill University, "Identifiability of the Regression Parameter and Validity of the Partial Likelihood Approach in General Relative Risk Regression." 415B CAB.

13 May, 3 pm

Ping Zhang, Department of Statistics, University of Pennsylvania, "Nonparametric Importance Sampling." 657 CAB.

 This symbol denotes environmentally-related seminars/events. If you wish to have an environmentally-related event listed in this way, please contact: The Environmental Research and Studies Centre, 492-6659.

POSITIONS



The University of Alberta is committed to the principle of equity in employment. The University encourages applications from aboriginal persons, disabled persons, members of visible minorities and women.

ACADEMIC STAFF

ASSISTANT TO THE DEAN OF STUDENTS

This is a one-year contract administrative position which will be responsible to the Dean of Students, with potential for continuation of the position in subsequent years. The incumbent will provide administrative support to the Dean and Student Services' units in areas of strategic planning, policy development, decision-making, problem-solving and budgeting; coordinate various Student Services initiatives; manage specific projects; analyze and respond to issues on behalf of the Dean; liaise with student government, student groups and Faculties; and serve as advocate and advisor to students.

Qualifications: University degree or equivalent preparation; effective administrative skills; knowledge of the University of Alberta, its structures and policies; strong working knowledge of the Code of Student Behaviour; understanding of the principles of natural justice; experience in conflict resolution and mediation; experience in advising students; ability to represent the Dean of Students appropriately at various levels; excellent communication skills; genuine commitment to the well-being of students, to removal of barriers to their educational goals, and to provision of a quality educational experience.

Salary range: \$30,000 to \$35,000 depending on qualifications.

Deadline for submissions: 31 May 1994.

Résumés with the names of three referees to: Dr James D Newton, Dean of Students, 245 Athabasca Hall, University of Alberta, Edmonton, Alberta T6G 2E8.

COOPERATIVE EDUCATION

COORDINATOR, FACULTY OF BUSINESS (One-year term position with a possibility of extension)

The Faculty of Business is seeking a Cooperative Education Coordinator for the Cooperative Education option in the Bachelor of Commerce degree program. The Cooperative Education Coordinator will report to the Director, Business Cooperative Education.

The Coordinator is responsible for the development of paid, business-related jobs in sufficient numbers and of sufficient diversity to meet the needs of cooperative education students; for preparing cooperative education students for successful participation in the cooperative education option through formal class instruction and individual advising; for evaluating students for credit purposes in the work experience portion of their programs; and for contributing to

the maintenance and enhancement of Faculty of Business relationships with employers.

Qualifications: An undergraduate or graduate degree in Commerce or Business and a minimum of five years' work experience are required. Strong interpersonal, communication, organizational and computing skills are necessary. Experience in the areas of training, teaching, cooperative education and/or career planning and placement are an asset. Applicants will be required to travel to work sites to monitor students on the job.

Salary range: \$34,000 to \$41,000 depending upon qualifications.

Interested applicants should apply to the attention of: Claudette de Bruijn, Director, Business Cooperative Education, 2-21 Faculty of Business, University of Alberta, Edmonton, Alberta T6G 2R6, by 20 May 1994.

ASSISTANT DIRECTOR, CAMPUS RECREATION

Applications are invited for the position of Assistant Director, Campus Recreation, to begin 1 July 1994.

The Assistant Director will have various responsibilities in the delivery of the University's Campus Recreation Programs.

This program area is primarily directed at members of the University community.

Major duties will be the planning and promotion of recreation, fitness and instructional activities on a year round basis. The recruitment, training and evaluation of staff will constitute a large portion of the work associated with this position, as well as budget preparation, implementation and monitoring.

Qualifications: Candidates should have a physical education degree, exceptional written and oral communication skills, and should understand effective planning, management and direction of an activity-oriented organization. In addition, the candidate should have least three to four years of professional work experience and the relevant credentials in order to be able to provide leadership in a recreation, fitness and instructional setting.

Salary is currently under review.

Applications: Applications, including a curriculum vitae and the names of three references, should be forwarded by 24 May 1994 to: Mr Ian Reade, Chair, Department of Athletics, Van Vliet Centre, University of Alberta, Edmonton, Alberta T6G 2H9.

SUPPORT STAFF

To obtain information on support staff positions, please contact Personnel Services and Staff Relations, 2-40 Assiniboia Hall, telephone 492-5201. You can also call the Job Information Line at 492-7205 (24 hours) or consult the weekly Employment Opportunities Bulletin.

EVENTS



EXHIBITIONS

BRUCE PEEL SPECIAL COLLECTIONS LIBRARY

Until 15 July

"Ancient Coins and Renaissance Books: Aspects of Roman History"—an exhibition honouring the 65th birthday of Duncan Fishwick, Department of Classics. Rare books from the Peel Library include many 16th and 17th century editions. Coins generously lent from the collections of T Cheesman, Nickle Art Museum, University of Calgary, G Wright, and the U of A's Classics Department. Bruce Peel Special Collections Library, B-7

Rutherford South. Hours: 8:30 am to 4:30 pm Monday through Friday. Closed weekends.

EXTENSION CENTRE GALLERY

Until 9 May

"Students' Work 1993-94"—an exhibition of works by Faculty of Extension students during the past year. Gallery hours: Monday to Thursday, 8:30 am to 8 pm; Friday, 9:30 am to 4:30 pm; Saturday, 9 am to noon. Information: 492-3034. 2-54 University Extension Centre.

FAB GALLERY

Until 29 May

"Drawing Conclusions"—the BFA graduate show. Gallery hours: Tuesday to Friday, 10 am to 5 pm; Sunday, 2 to 5 pm; Saturday, Monday and statutory holidays, closed. 1-1 Fine Arts Building.

THEATRE

STUDIO THEATRE

Until 14 May, 8 pm

"Possible Worlds." Tickets: 492-2495. Seating is extremely limited—reservations are required. 1-63 Fine Arts Building.

Folio publishing schedule

Folio will publish twice more this month (13 and 20 May) and twice more next month (3 and 24 June). There will be one Folio in each of July (the 29th) and August (the 26th).

Weekly publication of Folio resumes on 2 September.

Boomer Lectures taking place next week

The 1993 Boomer Lectures will be delivered by John Bercaw, Centennial Professor of Chemistry at the California Institute of Technology.

Professor Bercaw obtained his BS degree from North Carolina State University and his PhD from the University of Michigan. His research interests are in synthetic, structural and mechanistic organotransition metal chemistry.

During the 1970s, his investigations concerned the role of transition metal complexes in the reduction of molecular nitrogen to hydrazine and ammonia. In the 1980s, Dr Bercaw and his research group focused their efforts on methods

to activate the carbon-hydrogen bonds of simple hydrocarbons.

Recent studies include preparation of relatively well defined catalysts for Ziegler-Natta polymerization of olefins and mechanistic investigations of hydrocarbon hydroxylation by water-soluble platinum compounds.

The Boomer Lectures will be given 10 to 13 May inclusive, in V-106 of the Physical Sciences Complex beginning at 11 am daily (see "Talks", above, left).

The 1993 lectures are the 35th in a series inaugurated in 1958 to recognize the contributions of Professor Edward Herbert Boomer, who was associated with the Department of Chemistry from 1925 to 1945.



ACCOMMODATIONS FOR RENT

MICHENER PARK - Two bedroom rowhouses and apartments for rent in University residence located in southwest Edmonton. Excellent bus service to University, utilities included. University enquiries welcome, 492-7044.

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LEMARCHAND, high style, executive condo. Two bedrooms plus den, furnished. August 1994 - August 1995. \$1,500/month. Western Relocation, 434-4629.

OXFORD - Share, modern, three bedroom, fully equipped semi with historian and two cats. Ideal for summer or sabbatical research. Nonsmoker. 250 pounds/month, 1/2 bills. Elaine, (865) 741313 or CHALUS@UK.AC.Oxford.VAX.

LARGE, COZY HOUSE to share. Very suitable for visiting professor. Lots of privacy and very clean. Ten-minute walk to University. \$400/month plus share of food and utilities. Available 1 June. 439-6802.

VANCOUVER is one hour from this furnished, four bedroom, modern house on Bowen Island. Water view, beach access, five appliances, fireplace. Late August or September through June. Nonsmokers, no pets. \$950 monthly. 439-0233.

DELUXE, fully furnished, one bedroom condo. 18th floor river view, pool, sauna, adjacent to campus. Available May. 492-3633, 433-4136.

WONDERFUL, OREGON COAST hideaway for two. Charming lakefront home available 1 September 1994 - 1 May/1 June 1995. \$650 (U.S.) 435-4388.

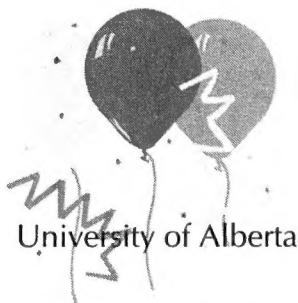
SABBATICAL, August 1994 - July 1995. New, furnished, three bedroom house. Nonsmokers, no pets. \$900/month plus utilities. 492-0372, 481-8186.

MALMO, immaculate bungalow. Furnished, developed basement, two-garage. \$900. Raymond Cheng, 498-2930.

HARDISTY - Sabbatical, September 1994 - September 1995. Fully furnished, three bedroom bungalow. Quiet family neighbourhood, near river valley. 2 1/2 baths, den, garage. \$1,400/month. Negotiable. 466-4875 evenings.

MONTREAL - Large, 6 1/2 room, furnished flat, 3rd floor triplex. Close to mountains, McGill, St Laurence Blvd. Sunny, casement windows, wood floors. 1 September - 30 April. Call 1-514-845-5824.

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Continued on page 8



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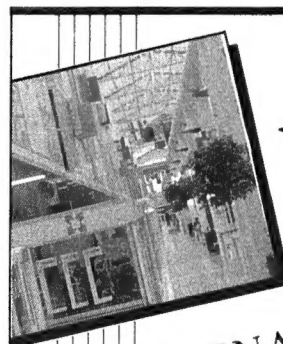
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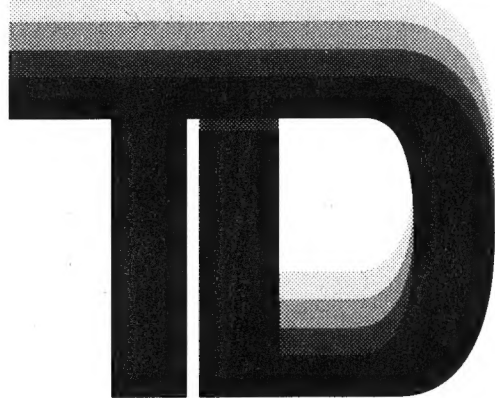
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HOUSE, Belgravia, 1 July, one year. Furnished, two/three bedrooms, study, solarium. Attractive yard. No pets. \$900. 435-6171.

MCKERNAN, four bedroom house, appliances, single garage. 11306 75 Avenue. \$900/month plus utilities. Wayne, 998-7368.

SABBATICAL HOUSE - July 1994 - August 1995. Furnished, two bedrooms. Nonsmokers, pets okay. \$800/month plus electricity. 435-9995.

SABBATICAL, August - August 1995. Three bedrooms, two bathrooms, furnished/unfurnished. Garage, fenced, 15 minutes to campus. Children, pets okay. Nonsmokers. \$750. 465-3740, 492-3003.

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REDUCED, \$105,800! Make us an offer on this 1,313' condominium near the legislature grounds and city centre. Two bedrooms, two baths. Ideal arrangement to share a mortgage payment. Marjorie King, Spencer, 435-0808, 435-0395.

RIVERWIND three bedroom, executive condo. \$195,000. Mortgage three percent less than any bank. Spectacular view. Possible rent-to-own. 492-6546, 435-1346.

GARNEAU, superior, professionally renovated older home. Two storey, hardwood floors, balcony, deck, finished basement, many extras. Sale by owner. 433-7567.

NEW LISTING - Walking distance University. Unusual townhouse in four-unit condo. All owner occupied. New luxury ensuite bathroom. Two garage stalls. Jean Mackenzie, Sutton Realty, 438-2500.

BRIDGE HOUSE, two University area condos. Penthouse, 1,410', new carpeting, paint, tiles. Also 1,435' condo, two bedrooms, two baths. Each with five appliances. Panoramic views. Nancy Steen, Re/Max, 433-6326, 426-4461.

ACCOMMODATIONS WANTED

NONSMOKING COUPLE in 50's need furnished accommodation September and October 1994. Housesit or reasonable rent? 435-4388.

WANTED: Two or three bedrooms, furnished, linens, dishes. June, July, August. Retired couple. References. 469-6586.

HOUSESITTING JOB WANTED. Responsible, mature female, nonsmoker. Available August. 439-2597.

AVAILABLE TO HOUSESIT - From June 1994 - July/August 1995. Excellent references. 455-1753, 671-3931 (pager).

MATURE, professional, nonsmoking lady would like to housesit for the summer. References available. Please call Dianne, 437-0380, 455-3482, 492-3637.

GOODS FOR SALE

CASH PAID FOR APPLIANCES - 432-0272. RICOH MIRAI 35-135mm DB back, \$300. 430-8507 evenings.

SERVICES

DONNIC WORD PROCESSING - Since 1978, specializing in theses, manuscripts, etc. 453-2769.

DAVID RICHARDS CARPENTRY - Certified journeyman NAIT. Complete interior/exterior residential and commercial renovations including plumbing/electrical. References available. 436-6363.

MARK EHRMAN CABINET SERVICES - Custom designs or made to match existing. References available. 463-0889.

ROTOTILLING. Reasonable rates, quality work guaranteed. 436-3144.

COMPLETE SECRETARIAL SERVICES - Transcribing (medical and other), minute taking. Quick turnaround. Several years' University experience. Sheila Parr, 454-7581.

LAWN CARE at your service. Recycling, mower/weedeating. 662-4217 (local).

MISCELLANEOUS

BELGRAVIA ELEMENTARY SCHOOL, K-Grade 6. Small school setting near University. Extended French, strong fine arts program, high academic standards, parental involvement high, out-of-school care. Very friendly. 435-5560.

PROFESSIONAL office space to rent in heart of Old Strathcona. Newly renovated. Reception and secretarial services optional. Full- or part-time. Enquire, Dr U Neumann, 671-5520 (pager).

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